Abstract

The invention pertains to dog P-glycoproteins and related P-glycoproteins which include dog-specific amino acids, as well as nucleic acids which encode those polypeptides.

The present invention also includes fragments and biologically functional variants of the dog P-glycoprotein. The invention further relates to methods of using such dog P-glycoprotein nucleic acids and polypeptides, especially in methods for determining bioavailability of drugs and for screening for inhibitors of dog PGP. Also included are dog PGP inhibitors which inhibit dog PGP activity by inhibiting the expression or function of dog PGP.

10